

Set	Items	Description
S1	72142	PREDICT? OR FORECAST? OR FORE()CAST? OR FORETELL?
S2	94364	REPAIR? OR MAINTAINANCE
S3	951128	COST? ? OR FINANC???
S4	2884089	AGE OR LONGEVITY OR TIME
S5	5614163	COMMODIT? OR ITEM? ? OR ARTICLE? OR GOOD? ? OR PRODUCT? ? - OR EQUIPMENT OR MERCHANDI? OR COMPONENT? ?
S6	722457	FAIL? OR DETERIORAT? OR WEAR(1W)TEAR OR REPLAC? OR BREAK? (- )DOWN
S7	82	S1(3N)S2
S8	24	S6 AND S7
S9	31	S7 AND S4
S10	4	(PREVENTIVE OR CORRECTIVE) (2N)MAINTAINANC?
S11	51	S8:S10

? show file

File 347:JAPIO Nov 1976-2005/Jun(Updated 051004)

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File 350:Derwent WPIX 1963-2005/UD,UM &UP=200566

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Patent and Priority Information (Country, Number, Date):

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Application: WO 2002US4036 20020212 (PCT/WO US0204036)

Priority Application: US 2001268360 20010214; US 2001954273 20010918

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(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

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Fulltext Word Count: 15317

Main International Patent Class: G06F-017/50

Fulltext Availability:

Claims

Claim

... 1, wherein said

infrastructure information includes information selected from the group  
consisting of equipment brand, equipment type, equipment settings,  
equipment configuration, equipment orientation, equipment  
specifications, equipment parameters, equipment manufacturer,  
equipment use logs, equipment licensing  
information, information regarding methods for communicating with the  
equipment, equipment users...

...predicted equipment cost, actual

equipment cost, predicted equipment failure rate, actual equipment  
failure rate, 0 predicted equipment maintenance or repair cost,  
actual equipment maintenance 1 or repair cost, and equipment identifiers.

13 The asset management...35, wherein said

infrastructure information includes information selected from the group  
consisting of equipment brand, equipment type, equipment settings,  
equipment configuration, equipment orientation, equipment  
specifications, equipment parameters, equipment manufacturer,  
equipment use logs, equipment licensing  
information, information regarding methods for communicating with the  
equipment, equipment users...

...cost, actual

.9 equipment cost, predicted equipment failure rate, actual equipment  
failure rate, 1 0 predicted equipment maintenance or repair cost,  
actual equipment maintenance 1 1 or repair cost, and equipment  
identifiers.

47 The asset...

17/3,K/6 (Item 5 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT

SOLUTION: By carrying out a program 12, a computer 10 obtains repair construction information including a natural update life, the standard number of times of repair construction until update, a life extension rate to the natural update life by repair construction, a cost for required standard repair per once repair, an actual repair construction time and repair investment at each repair construction time which are to be used for the long-term repair plan of the building. Based on these obtained value, the computer 10 calculates an index value corresponding to the necessity of construction for repair or update at each prescribed time and outputs it.

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11/5/12 (Item 12 from file: 347)  
DIALOG(R)File 347:JAPIO.  
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07321300 \*\*Image available\*\*  
RETAIL METHOD AND SYSTEM

PUB. NO.: 2002-189787 [JP 2002189787 A]  
PUBLISHED: July 05, 2002 (20020705)  
INVENTOR(s): YOSHIKAWA YOSHISHIGE  
YOSHIMURA YASUO  
APPLICANT(s): MATSUSHITA ELECTRIC IND CO LTD  
APPL. NO.: 2000-388312 [JP 2000388312]  
FILED: December 21, 2000 (20001221)  
INTL CLASS: G06F-017/60

#### ABSTRACT

PROBLEM TO BE SOLVED: To allow a consumer to buy a product without worrying about the payment of repair cost and at ease.

SOLUTION: A calculating means 5 for predictive repair cost calculates predictive repair cost needed to operate the product for a fixed period on the basis of basic data, an added amount set by an added amount presenting means 7 is presented to a maker of the product, a buying means 10 buys the product at a shipment price presented by the maker, a sales price presenting means 11 presents a sales price obtained by adding the amount to be added to the shipment price to the consumer, and an guarantee means 13 guarantees the consumer who buys the product to repair a failure that occurs in the product or to pay the repair cost of the failure for the fixed period.

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11/5/13 (Item 13 from file: 347)  
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07248710 \*\*Image available\*\*  
REPAIR COST PREDICTING SYSTEM FOR WORKING VEHICLE

PUB. NO.: 2002-117164 [JP 2002117164 A]  
PUBLISHED: April 19, 2002 (20020419)  
INVENTOR(s): ARASHIMA NOBUYUKI

(Japan)  
APPL. NO.: 07-227332 [JP 95227332]  
FILED: August 11, 1995 (19950811)  
INTL CLASS: [6] G07C-003/02; G01M-003/00; G01M-003/04; G01M-003/24  
JAPIO CLASS: 46.1 (INSTRUMENTATION -- Measurement); 46.2 (INSTRUMENTATION  
-- Testing)  
JAPIO KEYWORD: R131 (INFORMATION PROCESSING -- Microcomputers &  
Microprocessors)

#### ABSTRACT

PROBLEM TO BE SOLVED: To exactly predict an optimum timing by converting the leaked quantity data of valve into a lost amount of money, storing it, performing the regression processing of this lost amount of money, comparing the predicted amount of money with the cost of repair and exchange and predicting the timing of repair and exchange.

SOLUTION: A leaked quantity detector 2 detects the leaked quantity of steam by detecting a vibration level with the operation of a steam trap 1 and a microprocessor 3 converts these leaked quantity data of steam into the lost amount of money by multiplying the leaked quantity data by a unit steam price at a converting means 4 and stores the converted lost amount of money in a storage means 5 for every data and time of detection. The regression processing of this stored lost amount of money is performed by linear regression analysis or quadratic curve regression analysis, and the regression curve is displayed on a display means 7. On the other hand, when the cost required for repairing and exchanging the steam trap 1 is inputted from an input means 6, the microprocessor 3 finds the timing of repair and exchange from the lost amount of money matched with the cost of repair and exchange on the regression curve and displays that timing on the display means 7.

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DIALOG(R) File 347:JAPIO  
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04743055 \*\*Image available\*\*  
APPARATUS FOR MONITORING PROCESS OF PLANT

PUB. NO.: 07-035655 [JP 7035655 A]  
PUBLISHED: February 07, 1995 (19950207)  
INVENTOR(s): IZUMI SHINTARO  
APPLICANT(s): TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 05-181269 [JP 93181269]  
FILED: July 22, 1993 (19930722)  
INTL CLASS: [6] G01M-019/00; G01D-021/00; G05B-023/02; G06F-003/14  
JAPIO CLASS: 46.2 (INSTRUMENTATION -- Testing); 22.3 (MACHINERY -- Control  
& Regulation); 43.1 (ELECTRIC POWER -- Generation); 45.3  
(INFORMATION PROCESSING -- Input Output Units); 46.1  
(INSTRUMENTATION -- Measurement)

#### ABSTRACT

PURPOSE: To discover an abnormality of a device in the early stage and to predict a repairing timing of the device, by statistically processing data of the driving history of a plant, automatically calculating a convenient and effective control value for actual use, and monitoring the process amount in real time by the control value.

CONSTITUTION: A process data 1d from each sensor is periodically read into a process data input device 1, and recorded in a data recording part 2.

015358856     \*\*Image available\*\*  
WPI Acc No: 2003-419794/200339  
Related WPI Acc No: 2002-226632  
XRPX Acc No: N03-335173

Computer-implemented mobile asset repair identification and evaluation method involves predicting failure by processing data indicating incipient malfunction and adjusting corresponding repair weight based on usage profile

Patent Assignee: GIBSON D R (GIBS-I); RODDY N E (RODD-I); SCHICK L A (SCHI-I); SHAFFER G R (SHAF-I)

Inventor: GIBSON D R; RODDY N E; SCHICK L A; SHAFFER G R

Number of Countries: 001    Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030055666	A1	20030320	US 2000201243	P	20000501	200339    B
			US 2000644420	A	20000823	
			US 2000736495	A	20001213	
			US 2002199717	A	20020718	

Priority Applications (No Type Date): US 2000201243 P 20000501; US 2000644420 A 20000823; US 2000736495 A 20001213; US 2002199717 A 20020718

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20030055666	A1		30	G06F-017/60	Provisional application US 2000201243

CIP of application US 2000644420

CIP of application US 2000736495

Abstract (Basic): US 20030055666 A1

NOVELTY - Data indicating mobile asset usage, is processed relative to historical data collected from corresponding mobile assets, to generate a usage profile for that asset. Data indicating incipient malfunction in the mobile asset, is processed to generate a prediction of a **failure** in the asset and required repair. A repair weight indicating the probability that the repair will prevent the **failure**, is determined and adjusted based on the usage profile.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) mobile asset service determination method; and
- (2) mobile asset servicing schedule determination method.

USE - For identifying and evaluating repair that is likely to prevent **failure** of mobile asset.

ADVANTAGE - Effectively identifies and evaluates the **repair** for preventing the **predicted failure** in the mobile asset.

DESCRIPTION OF DRAWING(S) - The figure shows a flowchart illustrating the mobile asset repair identification and evaluation process.

pp; 30 DwgNo 3/16

Title Terms: COMPUTER; IMPLEMENT; MOBILE; REPAIR; IDENTIFY; EVALUATE; METHOD; PREDICT; **FAIL**; PROCESS; DATA; INDICATE; INCIPIENT; MALFUNCTION; ADJUST; CORRESPOND; REPAIR; WEIGHT; BASED; PROFILE

Derwent Class: T01

International Patent Class (Main): G06F-017/60

File Segment: EPI

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